

A GUIDE TO REDUCING AIR POLLUTION FROM **ASBESTOS** RENOVATION AND DEMOLITION

WHAT is regulated by this program?

All demolitions and regulated renovation activities containing friable asbestos-containing material greater than or equal to 160 square feet, 260 linear feet, or 35 cubic feet. This is determined by an Asbestos Hazard Emergency Response Act (AHERA) certified consultant prior to demolition or renovation.

WHO is regulated by this program?

Public, commercial, industrial buildings, and apartment complexes of greater than 4 units.

Who is NOT regulated by this program?

Private residences and apartment complexes of 4 units or less.

- DISCLAIMER -

The information presented here is merely a guideline and does not cover all of the asbestos NESHAP requirements. For further details, contact Maricopa County's Asbestos NESHAP Coordinator Todd Williams at (602) 506-6708 or at twilliam@esenvmgt.maricopa.gov.

FEE STRUCTURE

On August 19, 1998, the Maricopa County Board of Supervisors approved new and revised fees for the Maricopa County Environmental Services Department, Air Quality Division. These fees became effective as soon as the rule revisions were adopted on August 19, 1998. Since fees are subject to change, you may wish to contact the Maricopa County Asbestos NESHAP Coordinator Todd Williams at (602) 506-6708.

REGULATED ASBESTOS CONTAINING MATERIALS NOTIFICATION & PLAN REVIEW FEE

Per Rule 280 of the Maricopa County Air Pollution Control Rules, there is a nonrefundable notification and plan review filing fee of \$425.00. A separate fee is required for renovation and demolition.

EXAMPLE: A commercial building being abated and then demolished will require a fee for abatement **AND** a fee for demolition.

\$425.00 Abatement (Renovation)
+ \$425.00 Demolition
\$850.00 Total

DEFINITIONS

AHERA - Asbestos Hazard Emergency Response Act

Asbestos - means the asbestiform varieties of serpentinite (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite, anthophyllite, and actinolite-tremolite.

Category I (CAT I) nonfriable asbestos-containing material (ACM) - means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II (CAT II) nonfriable ACM - means any material, excluding Category I nonfriable ACM, containing more than 1% asbestos as determined using the methods specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Demolition - means the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility.

Friable - means any material that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

NESHAPs - National Emission Standards for Hazardous Air Pollutants pursuant to 40 CFR part 61, subpart M (1990).

Regulated asbestos-containing material (RACM) - means (a) Friable asbestos material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

Renovation - means altering a facility or one or more facility components in any way, including the stripping or removal of regulated asbestos-containing material (RACM) from a facility component. Operations in which load-supporting structural members are wrecked or taken out are demolitions.

GENERAL GUIDELINES FOR DEMOLITION PROJECTS

1. Determine if the building has been inspected by an AHERA-certified asbestos building inspector during the past year. ***If it has been***, obtain a copy of the asbestos report to determine if asbestos is present. ***If it has not been inspected***, have the building inspected by an AHERA-certified asbestos inspector and verify his or her certification. Obtain a copy of the inspection report and determine if asbestos is present. It is recommended that the asbestos inspection report be available on site throughout the entire demolition project.
2. Determine the amount of friable asbestos containing material. If the amount is ***160 square feet, 260 linear feet, 35 cubic feet or more***, it is regulated asbestos and must be removed by a certified contractor. (See [General Guidelines for Renovation Projects](#)).
3. Strongly consider hiring a third party consultant who has asbestos contractor/supervisor training to oversee the project. If you do hire a consultant, pay attention to the recommendations and guidance.
4. ***Prepare and submit the [NESHAP 10-Day notification form](#) with the appropriate fee. This notification must be postmarked or hand-delivered to Maricopa County Environmental Services Department, NESHAP Coordinator, 1001 N. Central Ave., #300, Phoenix, Arizona, 85004 at least 10 days prior to the commencement of demolition activities.***
5. Make sure that you obtain all required permits for your demolition project (i.e., dust control and/or earth moving permits).
6. ***REMEMBER: you as the owner/operator are responsible*** for all phases of asbestos removal, transportation and disposal.
7. If you have any questions, contact Maricopa County's Asbestos NESHAP Coordinator Todd Williams at (602) 506-6708.

GENERAL GUIDELINES FOR RENOVATION PROJECTS

1. Determine if the building has been inspected by an AHERA-certified asbestos building inspector during the past year. ***If it has been***, obtain a copy of the asbestos report to determine if asbestos is present. ***If it has not been inspected***, have the building inspected by an AHERA-certified asbestos inspector and verify his or her certification. Obtain a copy of the inspection report and determine if asbestos is present. It is recommended that the asbestos inspection report be available on site throughout the entire renovation project.
2. Determine the amount of friable asbestos containing material. If the amount is ***160 square feet, 260 linear feet, 35 cubic feet or more***, it is regulated asbestos and must be controlled or removed by a certified contractor.
3. Strongly consider hiring a third party consultant who has asbestos contractor/supervisor training to oversee the project. If you do hire a consultant, pay attention to the recommendations and guidance.
4. Prepare or review the proper ***10-Day notification form*** so that you are aware of the extent of the project. ***If the renovation requires the removal of required asbestos as defined in (2) above, the notification form must be postmarked or hand-delivered to Maricopa County Environmental Services Department, NESHAP Coordinator, 1001 N. Central Ave., #300, Phoenix, Arizona, 85004 at least 10 working days prior to the commencement of the renovation project, with the appropriate fee.***
5. Make sure that you obtain all required permits for your renovation project.
6. ***REMEMBER: you as the owner/operator are responsible*** for all phases of asbestos removal, transportation and disposal.
7. If you have any questions, contact Maricopa County's Asbestos NESHAP Coordinator Todd Williams at (602) 506-6708.

MARICOPA COUNTY AIR POLLUTION CONTROL REGULATIONS

RULE 370

301.8 SUBPART M - National Emission Standard for Asbestos; exclude 61.149(c)(2), 61.150(a)(4), 61.151(c)(2), 61.152(b)(3), 61.153(c), 61.154(b)(2), 61.154(d), 61.155(a), and 61.156(d).

Date First Adopted: (38FR8826, April 6, 1973)

Date Last Amended: (60FR31920, June 19, 1995)

- a. Each owner or operator of a demolition activity or renovation activity involving a facility as defined in 40 CFR 61, Subpart M shall:
 - (1) Fully comply with all requirements of 40 CFR 61, Subpart M.
 - (2) Provide the Control Officer with written notification in the manner described in 40 CFR 61.145 of intention to demolish or to renovate.
 - (3) Inspect the facility within 12 months of commencement of demolition or renovation activity.
*** (All facilities, regardless of the date of construction)**
 - (4) Pay all applicable fees prescribed by Rule 280 of these rules.
- b. In addition, each owner or operator of a demolition activity or renovation activity shall comply with the following requirements:
 - (1) Certification, training, and record keeping requirements:
 - (a) All facilities scheduled for demolition or renovation shall be inspected by a **currently** certified Asbestos Hazard Emergency Response Act (AHERA) accredited asbestos building inspector (herein referenced as inspector), as required by either AHERA or the Asbestos School Hazard Abatement Reauthorization Act (ASHARA).
 - (b) Each owner and operator of a facility shall maintain a copy of any reports of inspections made for a facility for two years, including laboratory test results of samples collected, and shall submit a statement to the Control Officer verifying that the facility was inspected and verifying whether or not asbestos containing material (ACM) was found.
 - (c) All asbestos workers shall be AHERA trained, and an AHERA/ASHARA trained asbestos contractor/supervisor shall be on-site at all times during active asbestos abatement work.
 - (2) Asbestos renovation and demolition standards:
 - (a) Category I nonfriable ACM and Category II nonfriable ACM that remain nonfriable Category I ACM and nonfriable Category II ACM shall be removed so as not to create visible dust emissions during removal and transport to the disposal site.
 - (b) Inspection viewing devices at facilities are required at all asbestos renovation and abatement projects where regulated ACM is being abated, except for roofing projects involving Category I nonfriable ACM and Category II nonfriable ACM exclusively. Viewing devices shall be so designed as to allow an inspector to view the facility from the outside, either through ports or by video monitoring.
 - (c) The friable portion of regulated ACM shall be kept adequately wet and contained in transparent, leak-tight wrapping or 6-mil poly bags to prevent dust emissions during removal, transport, storage, and proper landfill disposal following local, county, state, and federal regulations. Each wrapping or bag shall be labeled with the name and address of the location that generated the ACM.

NESHAP NOTIFICATION FOR RENOVATION AND DEMOLITION ACTIVITIES

MARICOPA County, Arizona - Revised 10/27/98

National Emission Standards for Hazardous Air Pollutants (NESHAP)

THIS LINE FOR NESHAP REGULATORY AGENCY USE	U.S. Postal Service Postmark Date:	Commercial Delivery Service Delivery Date:	Other Hand Delivery Date:	ACTS#:	
1. TYPE OF NOTIFICATION: () Original; () Revision 1; () Revision 2; () Revision 3; () Revision 4; () Revision 5; () Cancel					
2a. FACILITY OWNER INFORMATION:					
Name of Company or Individual:					
Address:					
City/Community:			State:	Zip:	
Contact Person:			Telephone:		
2b. ASBESTOS REMOVAL CONTRACTOR/OPERATOR:					
Address:					
City:			State:	Zip:	
Contact Person:			Telephone:		
2c. DEMOLITION CONTRACTOR/OPERATOR:					
Address:					
City:			State:	Zip:	
Contact Person:			Telephone:		
3. TYPE OF OPERATION: () Renovation, () Emergency Renovation, () Demolition, () Ordered Demolition, () O&M					
4. DATE OF INSPECTION OF FACILITY, OR AFFECTED PART, BY AHERA CERTIFIED BUILDING INSPECTOR:					
5. FACILITY DESCRIPTION (Attach site location map for multiple structures at one street address or installation)					
Facility/Building Name:					
Address:					
City:	County: MARICOPA	State: AZ	Zip Code:		
Building Size in Floor Area (Sq. Ft.):	Number of Floors Affected:	Age of Facility:			
Fee Paid: \$ _____	Check No.: _____	Present Use:	Prior Use:		
6. PROCEDURE, INCLUDING ANALYTICAL METHODS, EMPLOYED TO DETECT THE PRESENCE OF RACM AND CATEGORY I AND CATEGORY II NONFRIABLE ACM: () Polarized Light Microscopy [PLM]; () Other _____					
NVLAP Laboratory Name: _____		Number of Samples: _____		Date Analyzed: ____/____/____	
7. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: * NOTE: Update notice when amount changes >20% RACM = Regulated Asbestos-Containing Material as defined in 40 CFR 61, Subpart M, §61.141		Amount of Nonfriable ACM			
		To Be Removed		Not To Be Removed	
		CAT I	CAT II	CAT I	CAT II
On Facility Components; Pipes (Linear Feet)					
On Facility Components; Surface Area (Sq. Ft.)					
Off Facility Components; Volume (Cubic Feet)					
8. SCHEDULED DATES FOR ASBESTOS REMOVAL (MM/DD/YY) Start Date: _____ Completion Date*: _____					
Days Worked (Circle): M T W Th F Sat Sun Day Shift Hours: _____ Evening Shift Hours: _____					
9. SCHEDULED DATES FOR DEMOLITION (MM/D//YY) Start Date: _____ Completion Date*: _____					
Mail/Deliver to:	Copy of Notification to:	Maricopa County Env. Svcs. Dept. Web Page: http://www.maricopa.gov/sbeap/asbestos.htm			
Maricopa County Env. Svcs. Dept. NESHAP Coordinator Attn: Todd Williams 1001 N. Central Ave. #300 Phoenix, AZ 85004 (602) 506-6708	Arizona DEQ/AQD NESHAP Coordinator Attn: Jon D. Marting 3033 N. Central Avenue Phoenix, AZ 85012 (602) 207-2333	\$425 RACM removal fee required for RACM removal at or above: 260 linear feet 160 square feet 35 cubic feet	No fee for non-friable CAT I and CAT II ACM asbestos abatement or below threshold amount of RACM. Courtesy notification requested.	\$425 demolition fee required for all NESHAP facilities. Residential homes with 1-4 dwelling units are exempt.	

10. DESCRIPTION OF PLANNED DEMOLITION/RENOVATION WORK: <input type="checkbox"/> TSI <input type="checkbox"/> Ceiling Texture <input type="checkbox"/> Duct/Seam Tape <input type="checkbox"/> Asbestos-Containing Roof Removal <input type="checkbox"/> A/C Pipe <input type="checkbox"/> A/C Siding/Shingles <input type="checkbox"/> VAT/Mastic >5580 sq ft w/rotating blade cut Other, please specify: _____ REMOVAL METHODS: <input type="checkbox"/> Hand/Non-Mechanical Tools <input type="checkbox"/> Mechanical/Power Tools <input type="checkbox"/> Mastic Solvents			
11. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT ASBESTOS EMISSIONS: <input type="checkbox"/> Adequately Wet <input type="checkbox"/> Full Containment <input type="checkbox"/> Critical Barriers/Negative Air <input type="checkbox"/> Glove-Bag <input type="checkbox"/> Leak-Tight Wrap <input type="checkbox"/> 6-Mil Bags <input type="checkbox"/> Other, please specify: _____			
12a. ASBESTOS WASTE TRANSPORTER #1:			
Company Name: _____			
Address: _____			
City: _____	State: _____	Zip: _____	
Contact Person: _____		Telephone: _____	
12b. ASBESTOS WASTE TRANSPORTER #2:			
Company Name: _____			
Address: _____			
City: _____	State: _____	Zip: _____	
Contact Person: _____		Telephone: _____	
13. ASBESTOS WASTE DISPOSAL SITE:			
Company Name: _____			
Address: _____			
City: _____	State: _____	Zip: _____	
Contact Person: _____		Telephone: _____	
14. FOR ORDERED DEMOLITIONS (40 CFR 61, §61.145(A)(3)), ATTACH A COPY OF THE AGENCY'S ORDERED DEMOLITION LETTER			
Name: _____		Title: _____	
State or Local Government Agency: _____		Authority: _____	
Date of Order (MM/DD/YY): _____		Date Demolition Ordered to Begin (MM/DD/YY): _____	
15. FOR EMERGENCY RENOVATIONS (40 CFR 61, §61.145(a)(4)(iv))			
Date and Hour of Emergency (MM/DD/YY - HH:MM): _____			
Description of the Sudden, Unexpected Event: _____			
Explanation of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial burden: _____			
16. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED RACM IS FOUND OR CATEGORY II NONFRIABLE ACM BECOMES CRUMBLD, PULVERIZED, OR REDUCED TO POWDER: <input type="checkbox"/> Stop Work <input type="checkbox"/> Notify Owner <input type="checkbox"/> Revise Notification <input type="checkbox"/> Follow 40 CFR 61, §61.145(c) Procedures			
17. I CERTIFY THAT AT LEAST ONE AHERA CERTIFIED CONTRACTOR/SUPERVISOR WILL SUPERVISE THE STRIPPING AND REMOVAL OF RACM DESCRIBED IN THIS NOTIFICATION AND THAT THE TRAINING CERTIFICATE WILL BE POSTED ON-SITE.			
_____ (Print Name: Owner/Operator)	_____ (Title)	_____ (Signature of Owner/Operator)	_____ (Date)
18. CERTIFICATION OF INSPECTION BY AN AHERA CERTIFIED ASBESTOS BUILDING INSPECTOR (ALL areas of Arizona):			
_____ (Print Name of Inspector)	_____ (Training Provider)	_____ (AHERA Certificate Number)	_____ (Expiration Date)
19. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT:			
_____ (Print Name: Owner/Operator)	_____ (Title)	_____ (Signature of Owner/Operator)	_____ (Date)



ASBESTOS NESHAP VIOLATION PENALTIES

Maricopa County Environmental Services Department utilizes a written policy to determine ASBESTOS NESHAP penalties based on circumstances unique to each case. Therefore, penalties are not comparable from one case to another. Violations described below resulted in the following penalties.

<u>VIOLATION</u>	<u>DATE</u>	<u>PENALTY</u>
-Failure to adequately wet and keep RACM wet until disposed; -Failure to seal RACM in transparent bag; -Failure to label bags with location and waste generators name; and -Failure to mark vehicle (container) during loading/unloading RACM.	July 1998	\$ 10,000
-Failure to provide disposal site accurate waste shipment records.	Aug. 1997	\$ 12,440
-No notice filed with Maricopa County prior to renovation; -Failure to remove Regulated Asbestos Containing Material (RACM) before renovation; -Failure to adequately wet and keep RACM wet until disposed; -Failure to contain RACM in leak-tight wrapping; and -No AHERA Contractor/Supervisor Trained representative on site.	March 1997	\$ 87,600
-Failure to remove Regulated Asbestos Containing Material (RACM) before renovation; -Failure to adequately wet and keep RACM wet until disposed; -Failure to contain RACM in leak-tight wrapping; -No Asbestos Hazard Emergency Response Act (AHERA) Contractor/Supervisor Trained representative on site; and -Failure to deposit RACM at disposal site as soon as practical.	Oct. 1996	\$ 60,000
-Failure to thoroughly inspect for RACM before commencing renovation; -Failure to remove Regulated Asbestos Containing Material (RACM); -Failure to remove Regulated Asbestos Containing Material (RACM) before renovation.	Sept. 1995	\$ 20,000

All demolitions and building renovations (including all Tenant Improvement operations) conducted in Maricopa County are regulated by the Environmental Services Department. Severe penalties and fines result from failure to comply with requirements. For further information pertaining to asbestos NESHAP regulations, please contact Maricopa County's Asbestos NESHAP Coordinator at (602) 506-6708.